

Title (en)  
ELECTROMAGNETIC COOKING DEVICE WITH AUTOMATIC BOILING DETECTION AND METHOD OF CONTROLLING COOKING IN THE ELECTROMAGNETIC COOKING DEVICE

Title (de)  
ELEKTROMAGNETISCHE KOCHVORRICHTUNG MIT AUTOMATISCHER SIEDEERKENNUNG UND VERFAHREN ZUR STEUERUNG DES KOCHVORGANGS IN DER ELEKTROMAGNETISCHEN KOCHVORRICHTUNG

Title (fr)  
DISPOSITIF DE CUISSON ÉLECTROMAGNÉTIQUE À DÉTECTION AUTOMATIQUE D'ÉBULLITION ET PROCÉDÉ DE COMMANDE DE CUISSON DANS LE DISPOSITIF DE CUISSON ÉLECTROMAGNÉTIQUE

Publication  
**EP 3563634 B1 20211013 (EN)**

Application  
**EP 16925725 A 20161229**

Priority  
US 2016069240 W 20161229

Abstract (en)  
[origin: WO2018125146A1] An electromagnetic cooking device and method of controlling the same is provided herein. The cooking device includes a cavity in which a liquid is placed and a plurality of RF feeds configured to introduce electromagnetic radiation into the cavity for heating the liquid. A controller is provided and is configured to analyze forward and backward power at the plurality of RF feeds to calculate efficiency; determine and monitor a coefficient of variation of the efficiency; detect a heating state in the liquid based on changes in the coefficient of variation; and adjust a power level of the electromagnetic radiation in response to detection of the heating state.

IPC 8 full level  
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CPC (source: EP US)  
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Designated contracting state (EPC)  
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